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Scaling Infrastructure for the Growth of Zero-Emission Fleets and Renewable Fuel Production

Today's Transit for Tomorrow's World

Lauren Skiver
CEO/General Manager
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Why SunLine is Centering its ZEB Fleet on Electric Fuel Cell

300 miles

High daily ranges
FCEBs excel on long routes and routes with frequent service

Fast refueling at depot
FCEBs are compatible with fueling islands and restrictive schedules

Full route flexibility
FCEBs are a 1:1 replacement for ICE buses and are not tied to on-route infrastructure

Challenging terrain
FCEBs excel on hilly terrain and steep grades

Extreme climates
FCEBs excel in all weather, from cold winters to hot summers

Vehicle Weight
Significant reduction in vehicle weight

ZEB Fleet

4-BYD

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- El Dorado National
  - Ballard
  - US Hybrid
  - BAE

- New Flyer
  - Ballard
  - Hydrogenics
  - Siemens

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- *2 FC in Production*
- *5 awarded through VW Mitigation Settlement and vehicle replacement funds*
- *5 awarded through EPA TAG*

Hydrogen Fueling Station Overview

Proton/Nel PEM Electrolyzer

- 900 Kg per day production
- 60% renewable solar electricity
- 380 Kg use per day
- 2 dispenser fast fill rate
- $8.7 Million CARB Grant
- Public Fueling – 700 Bar expansion for future

Solar Microgrid to Hydrogen

SunLine is looking to expand its fueling systems with the creation of a micro-grid:

- Phase 1 – Solar Farm
- Phase 2 – Solar to Hydrogen for Electricity Storage
- Phase 3 – 700 Bar Public Fueling Station
- Phase 4 – Hydrogen / Electricity Truck Plaza

Thank You!

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